

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/052588 A3

- (51) International Patent Classification⁷: **G01N 33/68**, C07K 19/00, C12N 15/62, 15/63, 5/10
- (21) International Application Number:
PCT/GB2004/004928
- (22) International Filing Date:
22 November 2004 (22.11.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0327143.4 21 November 2003 (21.11.2003) GB
0327338.0 25 November 2003 (25.11.2003) GB
- (71) Applicant (*for all designated States except US*): **THE QUEEN'S UNIVERSITY OF BELFAST** [GB/GB]; University Road, Belfast BT7 1NN (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **NELSON, John** [GB/GB]; 59 Ashley Avenue, Belfast BT9 7BU (GB). **DUPREX, William, Paul** [GB/GB]; 10 Ballyclough Road, Lisburn, County Antrim BT28 3UY (GB). **MC-FERRAN, Neil** [GB/GB]; 65 Marlborough Park South, Belfast BT9 6HS (GB).
- (74) Agent: **MURGITROYD & COMPANY**; Scotland House, 165-169 Scotland Street, Glasgow G5 8PL (GB).
- (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— *with international search report*
- (88) Date of publication of the international search report:
6 October 2005
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: DETECTION OF PROTEIN INTERACTIONS

(57) Abstract: The present invention relates to a method of detecting interactions, particularly peptide to peptide interactions, using fluorescence. Nucleic acids encoding fragments of fluorescent protein, a peptide of interest and a linker portion of different lengths interposed between the peptide of interest and a fragment of fluorescent protein is provided together with a peptide-interaction system and methods of using the same.

WO 2005/052588 A3